



MPE Limited’s range of TEMPEST pluggable filters has been designed for use with TEMPEST applications where compliance to NATO SDIP-27 B/C is required. Utilising ultra-high speed feedthrough capacitors, all units deliver optimum performance across the full frequency range and under all loading conditions. The filter range has been designed to ensure fitting and electrical installation is as quick and simple as possible.



**DESCRIPTION**

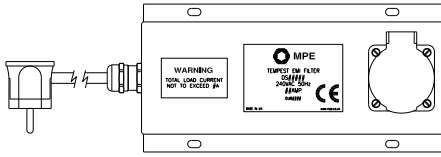
- TEMPEST EMI SP & N filter providing performance to NATO SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- Designed for rapid deployment applications where hardwired connections are not practical
- Simple mechanical and electrical installation
- 6A & 16A CEE 7/4 Schuko pin plug input & socket outlets
- 32A IEC 60309 ‘Commando’ connector input & CEE 7/4 Schuko socket outlets
- \*alternatively terminated filters (e.g. 3 Pin BS1363, Powercon, IEC etc.) are available upon request
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- Rugged magnetic stainless steel enclosure
- 6A and 16A designs of filter are downline tolerable to a personnel protection RCCB
- CE & RoHS compliant

**EUROPEAN RANGE**

	Single Outlet	Dual Outlet	Quad Outlet	In-Line
<b>6A</b>	DS30830EU	DS30831EU		DS30832EU
<b>16A</b>	DS30833EU	DS30834EU	DS30835EU	DS30836EU
<b>32A</b>		DS30837EU	DS30838EU	DS30839



**SINGLE OUTLET**



- 6A** DS30830EU
- 16A** DS30833EU

**DUAL OUTLET**



- 6A** DS30831EU
  - 16A** DS30834EU
  - 32A** DS30837EU\*
- \*(commando connector as standard, other termination options available upon request)

**QUAD OUTLET**



- 16A** DS30835EU
  - 32A** DS30838EU\*
- \*(commando connector as standard, other termination options available upon request)

**IN-LINE**



- 6A** DS30832EU (output unterminated)
  - 16A** DS30836EU (output unterminated)
  - 32A** DS30839 (output unterminated)
- \*(termination options available upon request)

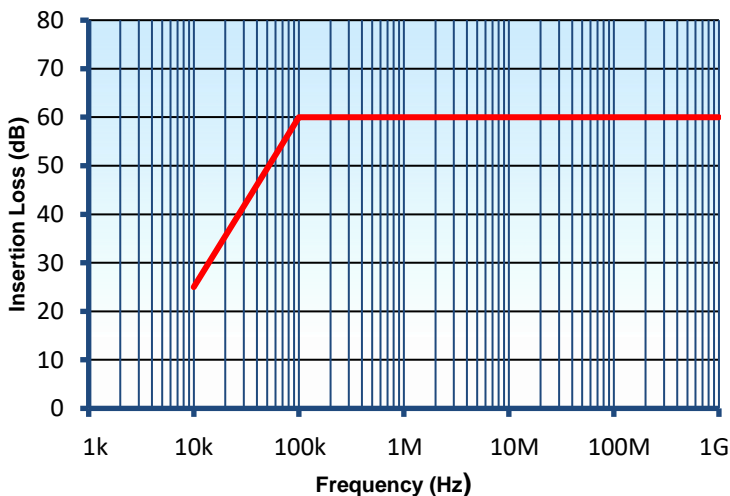
Part Number	NATO Stock Number
DS30830EU	5915-99-353-1169
DS30831EU	5915-99-156-5222
DS30832EU	
DS30833EU	5915-99-938-6086
DS30834EU	5915-99-343-2290
DS30835EU	5915-99-577-5337
DS30836EU	
DS30837EU	5915-99-584-2808
DS30838EU	5915-99-219-0951
DS30839	5915-99-615-9661



## RATINGS AND CHARACTERISTICS

Rated Voltage	250V ac 50/60Hz
Test Voltage (line – earth)	2250V dc
Test Voltage (line – line)	1250V dc
Rated Current, $I_R$ at 50°C	6A, 16A, 32A
Earth Leakage Current	6A & 16A less than 3.5mA, 32A less than 35mA
Maximum Temperature Rise on Full Load	25°C
Operating Temperature Range	-25°C to 50°C
Capacitor Potting	Epoxy resin meeting UL94-V0
Insertion Loss (50Ω, asymmetric)	60dB from 100 kHz to 1GHz (see graph)
Discharge Time	Less than 1s to below 34V
Enclosure	Ferromagnetic stainless steel
Finish	Natural, brushed
Marking	Self-adhesive label

Typical insertion loss in a 50Ω system, measured in accordance with CISPR 17, with or without load



## INSTALLATION

Although the filter does not need to be mounted to a solid surface, it is provided with a mounting option and were possible it should be fixed securely with maximum distance between the filter and the User's device. The Input screened cable and the User's Output cable should be maximally separated from each other to maintain red/black cable separation. Please see the MPE TEMPEST Pluggable Filters Installation and Maintenance Guide Application Note for further information.

## SAFETY

Relevant safety standards have been adhered to in the design and manufacture of this product. The filter must be solidly and permanently earthed to allow safe discharge of all internal capacitors - The earth connection of the input plug must be present and must not be interfered with. The User should ensure they do not overload the filter over the load limit.